

ABSTRACT OF THE DISCLOSURE

A method and communication system for exchanging data between at least two stations that are connected to one another via a distributed bus system, in which the data is contained in messages that are sent by the stations via the bus system. A common global time base, which at a predefinable instant is synchronized with an external reference time, and is provided for the stations of the bus system. To ensure reliable synchronization of the global time base with the external reference time, in particular without destroying the characteristics of the global time, (that is, without causing jumps in the global time base or a regressive global time), the stations of the communication system receive information regarding correction of the global time base, consent to a uniform correction value, and synchronously carry out external synchronization (that is, correction of the global time base).

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